

AMENDMENTS TO THE CLAIMS

Cancel Claims 17 and 20-23. Amend Claim 18 to recite it in independent form. Amend Claim 24 to recite it in independent form. Cancel Claims 26-29. Add Claims 33 and 34. Amend the claims as follows (the changes are shown with ~~striketrough~~ for deleted matter and underlining for added matter). A complete listing of the claims is set out below with proper claim identifiers.

1.-17. (Cancelled)

18. (Currently Amended) A catheter for delivering fluid into, or aspirating fluid out of, a body cavity or cavities, comprising:

a) a multiple lumen tube containing at least first and second lumens and having a proximal end and a distal end, said tube containing a septum separating said first and second lumens, said tube being formed so that said first lumen is shorter than said second lumen at said distal end whereby said second lumen opens and said septum terminates at a predetermined distance from where said first lumen opens at said distal end of said multiple lumen tube;

b) a first bolus having a nose end and a connector end and an axial passage therethrough;

c) said first bolus being formed independently of said multiple lumen tube and said distal end of said multiple lumen tube being seated in said axial passage at said connector end of said first bolus;

d) a single lumen catheter tube separate from said multiple lumen tube and seated in said axial passage of said first bolus at its nose end, said single lumen tube extending from a proximal end to a distal end and a port in said distal end;
and

~~18. (Currently Amended) The catheter of Claim 17 further characterized by and including;~~

~~e)a) a second bolus on the distal end of said single lumen catheter tube;~~

~~f)b) said port in said distal end of said single lumen tube being formed in the side of said second bolus.~~

19. (Previously Amended) The catheter of Claim 18 further characterized in that:

a) said second bolus has a nose end which is bullet shaped and which is smooth and does not contain a port.

20.-23. (Cancelled)

24. (Currently Amended) A catheter, comprising:

a) a catheter tube having a distal end and containing a first lumen and a second lumen separated by a septum;

b) said distal end of said tube being formed so that said second lumen and said septum extend beyond said first lumen for a predetermined distance whereby said septum forms a substantially flat outer wall of said tube for said predetermined distance;

c) a bolus formed independently of said multiple lumen tube, said bolus being connected to said distal end of said tube, said bolus forming at least a portion of each of a first port extending radially of said catheter over said substantially flat outer wall, said first port and communicating with said first lumen, and a second port communicating with said second lumen;

d) said septum, where it forms said outer wall of said tube, underlying at least a portion of said first port;

e) said catheter tube including a generally cylindrical wall containing said lumens, a portion of said cylindrical wall adjacent said distal end of said catheter being removed to expose said substantially flat outer wall;

24. ~~—~~ (Previously Presented) The catheter of Claim 23 further characterized in that:

(fa) ~~said second lumen extends~~extending to an opening at said distal end of said tube;

(gb) ~~said first lumen extends~~extending to an opening at a predetermined distance from said distal end of said tube; and

(h6) ~~said bolus tip includes~~including an attachment section fastened to said septum where it comprises an outer wall and has a rear face defining a ramp including a surface inclined at an angle to said septum.

25. (Previously Presented) The catheter of Claim 24 further characterized in that:

(a) said ramp extends rearwardly to an intersection with said first lumen opening.

26.-29. (Cancelled)

30. (Previously Amended) A catheter for delivering fluid into and aspirating fluid out of a body cavity or cavities comprising:

(a) a first tube arrangement containing at least first and second lumens extending from a proximal end of said first tube arrangement to a distal end thereof, one of said first and second lumens extending further than the other of said first and second lumens in said distal end;

(b) a second tube arrangement containing a single lumen extending from a proximal end of said second tube arrangement to a distal end thereof;

(c) a connecting member connecting said distal end of said first tube arrangement with said proximal end of said second tube arrangement where said first lumen in said first tube arrangement is in fluid communication with said lumen in said second tube arrangement;

(d) a first fluid port in the side of said connecting member in fluid communication with said second lumen; and

(e) a second fluid port in the distal end of said second tube arrangement in fluid communication with said single lumen.

31. (Previously Presented) The catheter of Claim 30 further characterized in that:

(a) said second fluid port is in the side of said second tube arrangement; and

(b) said distal end of said second tube arrangement includes a plug in the corresponding end of said single lumen.

32. (Previously Presented) A catheter, comprising:

(a) a plastic catheter tube having a proximal end and a distal end, and a plastic bolus seated on said distal end of said catheter tube;

(b) said catheter tube containing a first lumen and a second lumen, with a septum between them, said distal end of said catheter tube including a segment of said first lumen which extends beyond the distal end of said second lumen whereby said septum in said lumen segment comprises an outer wall of said first lumen;

(c) said plastic bolus having an axial passage extending through the length of said bolus, said passage containing a generally cylindrical connection section in which said distal end of said catheter tube is fastened; and

(d) a single lumen catheter tube including having a proximal end;

(e) said passage including another section in which said proximal end of said single lumen catheter tube is fastened.

33. (New) The catheter of Claim 24 further characterized is that:

a) said catheter tube contains a third lumen;

b) said third lumen extending to an opening adjacent said first lumen opening.

34. (New) The catheter of Claim 18 further characterized in that:

(a) said plastic catheter tube contains a third lumen;

(b) said third lumen extending to an opening adjacent where said first lumen opens.